

ABSTRACT OF THE DISCLOSURE

A magnetic disk array device is equipped with ATA magnetic disks,
at least one disk array controller for controlling the ATA magnetic disks,
5 and at least one processing offload function module provided between the
disk array controller and the ATA magnetic disk. The disk array
controller outputs one of a standard processing FC command for
performing a standard processing such as a read or write processing, and
an offload processing FC command for performing a vendor-unique offload
10 processing. The processing offload function module performs a command
mapping for the standard processing FC command and issues to the ATA
magnetic disk a corresponding ATA command, and prepares a group of
ATA commands for the offload processing FC command for optimum
processing in an ATA protocol.

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